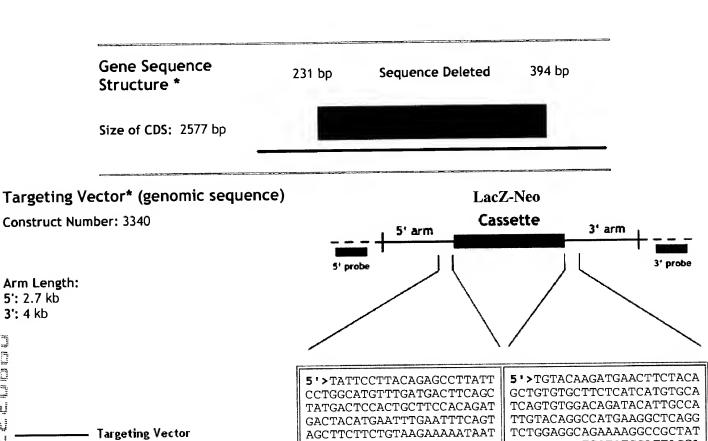
AATATTTTCCTTGACCTAATGCCATCTTGTGTCCCCTTGCAGAGCCCTATTCCTAACATGGCTGATGACTA TGGCTCTGAATCCACATCTTCCATGGAAGACTACGTTAACTTCACTGACTTCTACTGTGAGAAAA GGCAACAGTCTTGTTATCCTTGTCTACTGGTACTGCACAAGAGTGAAGACCATGACCGACATGTTCCTTTT GAATTTGGCAATTGCTGACCTCCTCTTTCTTGTCACTCTTCCCTTCTGGGCCATTGCTGCTGCTGACCAGT GGAAGTTCCAGACCTTCATGTGCAAGGTGGTCAACAGCATGTACAAGATGAACTTCTACAGCTGTGTGTTG CTGATCATGTGCATCAGCGTGGACAGGTACATTGCCCATTGCCCAGGCCATGAGAGCACATACTTGGAGGGA GAAAAGGCTTTTGTACAGCAAAATGGTTTGCTTTACCATCTGGGTATTGGCAGCTGCTCTCTGCATCCCAG AAATCTTATACAGCCAAATCAAGGAGGAATCCGGCATTGCTATCTGCACCATGGTTTACCCTAGCGATGAG GGCTTGCTGCTATACCATCATCATTCACACCCTGATACAAGCCAAGAAGTCTTCCAAGCACAAAGCCCTAA AAGTGACCATCACTGTCCTGACCGTCTTTGTCTTGTCTCAGTTTCCCTACAACTGCATTTTGTTGGTGCAG ACCATTGACGCCTATGCCATGTTCATCTCCAACTGTGCCGTTTCCACCAACATTGACATCTGCTTCCAGGT  $\tt CACCCAGACCATCGCCTTCTTCCACAGTTGCCTGAACCCTGTTCTCTATGTTTTTTGTGGGTGAGAGATTCC$ GCCGGGATCTCGTGAAAACCCTGAAGAACTTGGGTTGCATCAGCCAGGCCCAGTGGGTTTCATTTACAAGG  $\tt CTTCTCTGAGGTGCATGGTTCTTTTGGAAGAAATGAGAAATACATGAAACAGTTTCCCCACTGATGGGACC$ AGAGAGAGTGAAAGAAAAGAAAACTCAGAAAGGGATGAATCTGAACTATATGATTACTTGTAGTCAGAA TTTGCCAAAGCAAATATTTCAAAATCAACTGACTAGTGCAGGAGGCTGTTGATTGGCTCTTGACTGTGATG CAATGCCGCTGCCTCTGGAGGAGCCCTTGGATTTTCTCCATGCACTGTGAACTTCTGTGGCTTCAGTTCTC TGAAAATGTCCATCTTTGGGAAATTTTCTACCCTGCTCTTGAGCCTGATAACCCATGCCAGGTCTTATAGA  $\tt TTCCTGATCTAGAACCTTTCCAGGCAATCTCAGACCTAATTTCCTTCTGTTCTCTTGTTCTGTTCTGGGC$ CAGTGAAGGTCCTTGTTCTGATTTTGAAACGATCTGCAGGTCTTGCCAGTGAACCCCTTGGAAACTGACCA  ${\tt CAAGGATTCCGCTTATTCCTTGGTATGGTGACAGTGTCTCTCCATGGCCTGAGCAGGGAGATTATAACAGC}$ GGAATACAGTGAGCAGATATGGGCAGCCAGGTAGGGCAAAGGGGTGAAGCGCAGGCCTTGCTGGAAGG TAGGCTGAAAAAATAAGTAATGGAATTCACCTTTGCATCTTTTGTGTCTTTTTTTATCATGATTTTGGCAAA TTGTCACTTTCTTTACCCTGTCTCAATATTTTAAGTGTGTGCAATTAAAGATCAAATAGATACATTAAGAG TGTGAAGGCTGGTCTGAAGGTAGTGAGCTATCTCAATCGGATTGTTCACACTCAGTTACAGATTGAACTCC AGGGATAAGGAAATAAGATCT (SEQ ID NO:1)

MADDYGSESTSSMEDYVNFNFTDFYCEKNNVRQFASHFLPPLYWVFIVGALGNSLVILVYWYCTRVKTMTD MFLLNLAIADLLFLVTLPFWAIAAADQWKFQTFMCKVVNSMYKMNFYSCVLLIMCISVDRYIAIAQAMRAH TWREKRLLYSKMVCFTIWVLAAALCIPEILYSQIKEESGIAICTMVYPSDESTKLKSAVLTLKVILGFFLP FVVMACCYTIIIHTLIQAKKSSKHKALKVTITVLTVFVLSQFPYNCILLVQTIDAYAMFISNCAVSTNIDI CFQVTQTIAFFHSCLNPVLYVFVGERFRRDLVKTLKNLGCISQAQWVSFTRREGSLKLSSMLLETTSGALS L (SEQ ID NO:2)

<u>Underlined</u> = deleted in targeting construct **Bold** = sequence flanking Neo insert in targeting construct

**AATATTTTCCTTGACCTAATGCCATCTTGTGTCCCCTTGCAGAGCCCTATTCCTAACATG** GCTGATGACTATGGCTCTGAATCCACATCTTCCATGGAAGACTACGTTAACTTCAACTTC ACTGACTTCTACTGTGAGAAAAACAATGTCAGGCAGTTTGCGAGCCATTTCCTCCCACCC TTGTACTGGCTCGTGTTCATCGTGGGTGCCTTGGGCAACAGTCTTGTTAT CCTTGTCTAC <u>TGGTACTGCACAAGAGTGAAGACCATGACCGACATGTTCCTTTTGAATTTGGCAATTGCT</u> <u>GACCTCCTCTTCTTGTCACTCTTCCCTTCTGGGCCATTGCTGCTGCTGACCAGTGGAAG</u> TTCCAGACCTTCATGTGCAAGGTGGTCAACAGCA TGTACAAGATGAACTTCTACAGCTGT **GTGTTGCTGATCATGTGCATCAGCGTGGACAGGTACATTGCCCATTGCCCAGGCCATGAGA** GCACATACTTGGAGGGAGAAAAGGCTTTTGTACAGCAAAATGGTTTGCTTTACCATCTGG GTATTGGCAGCTGCTCTCCATCCCAGAAATCTTATACAGCCAAATCAAGGAGGAATCC GGCATTGCTATCTGCACCATGGTTTACCCTAGCGATGAGAGCACCAAACTGAAGTCAGCT GTCTTGACCCTGAAGGTCATTCTGGGGTTCTTCCTTCCCTTCGTGGTCATGGCTTGCTGC TATACCATCATCATTCACACCCTGATACAAGCCAAGAAGTCTTCCAAGCACAAAGCCCTA T TGTTGGTGCAGACCATTGACGCCTATGCCATGTTCATCTCCAACTGTGCCGTTTCCACC AACATTGACATCTGCTTCCAGGTCACCCAGACCATCGCCTTCTTCCACAGTTGCCTGAAC CCTGTTCTCTATGTTTTTGTGGGTGAGAGATTCCGCCGGGATCTCGTGAAAACCCTGAAG AACTTGGGTTGCATCAGCCAGGCCCAGTGGGTTTCATTTACAAGGAGAGAGGGAAGCTTG AAGCTGTCGTCTATGTTGCTGGAGACAACCTCAGGAGCACTCTCCCTCTGAGGGGTCTTC TCTGAGGTGCATGGTTCTTTTGGAAGAAATGAGAAATACATGAAACAGTTTCCCCACTGA TGGGACCAGAGAGAGAAAGAAAAGAAAACTCAGAAAGGGATGAATCTGAACTATAT GATTACTTGTAGTCAGAATTTGCCAAAGCAAATATTTCAAAATCAACTGACTAGTGCAGG AGGCTGTTGATTGGCTCTTGACTGTGATGCCCGCAATTCTCAAAGGAGGACTAAGGACCG GCACTGTGGAGCACCCTGGCTTTGCCACTCGCCGGAGCATCAATGCCGCTGCCTCTGGAG GAGCCCTTGGATTTTCTCCATGCACTGTGAACTTCTGTGGCTTCAGTTCTCATGCTGCCT  $\tt CTTCCAAAAGGGGACACAGAAGCACTGGCTGCTACAGACCGCAAAAGCAGAAAGTTT$ CGTGAAAATGTCCATCTTTGGGAAATTTTCTACCCTGCTCTTGAGCCTGATAACCCATGC CAGGTCTTATAGATTCCTGATCTAGAACCTTTCCAGGCAATCTCAGACCTAATTTCCTTC TGTTCTCCTTGTTCTGGGCCAGTGAAGGTCCTTGTTCTGATTTTGAAACGATCTG CAGGTCTTGCCAGTGAACCCCTGGACAACTGACCACACCCACAAGGCATCCAAAGTCTGT TGGCTTCCAATCCATTTCTGTGTCCTGCTGGAGGTTTTAACCTAGACAAGGATTCCGCTT ATTCCTTGGTATGGTGACAGTGTCTCTCCATGGCCTGAGCAGGGAGATTATAACAGCTGG GTTCGCAGGAGCCAGCCTTGGCCCTGTTGTAGGCTTGTTCTGTTGAGTGGCACTTGCTTT GAGGCCCACTTTATTCTGAGGAATACAGTGAGCAGATATGGGCAGCAGCCAGGTAGGGCA AAGGGGTGAAGCGCAGGCCTTGCTGGAAGGCTATTTACTTCCATGCTTCTCCTTTTCTTA CTCTATAGTGGCAACATTTTAAAAGCTTTTAACTTAGAGATTAGGCTGAAAAAAATAAGT AATGGAATTCACCTTTGCATCTTTTGTGTCTTTTCTTATCATGATTTTGGCAAAATGCATCA CCTTTGAAAATATTTCACATATTGGAAAAGTGCTTTTTAATGTGTATATGAAGCATTAAT TACTTGTCACTTTCTTTACCCTGTCTCAATATTTTAAGTGTGTGCAATTAAAGATCAAAT AGATACATTAAGAGTGTGAAGGCTGGTCTGAAGGTAGTGAGCTATCTCAATCGGATTGTT CACACTCAGTTACAGATTGAACTCCTTGTTCTACTTCCCTGCTTCTCTCTACTGCAATTG ACTAGTCTTTAAAAAAAGTGTGAAGAGTAAGCAATAGGGATAAGGAAATAAGATCT

FIGURE 2A



GTCAGGCAGTTTGCAAGCCATTTT

CTCCCACCTCTGTACTGGCTTGTG

TTCATTGTGGGCACCTTGGGCAAC

ACAGCAAGATGGTCTGCATTACCA

TCTGGGTGATGGCAGCTGTGCTCT

GCACCCCAGAAATCCTGTACAGTC

AAGTCAGTGGG<3'

(SEQ.ID.NO.4)

3': 4 kb

**Endogenous Locus** 

\* Not drawn to scale

١...

FIGURE 2B

AGCCTGGTCAT<3' (SEQ.ID.NO.3)